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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/275,727	03/24/1999	ANKE T. DEJONG	ADAPP091A	1135
25920	7590	11/03/2004		
MARTINE & PENILLA, LLP 710 LAKEWAY DRIVE SUITE 170 SUNNYVALE, CA 94085			EXAMINER TRAN. MYLINH T	
			ART UNIT 2179	PAPER NUMBER

DATE MAILED: 11/03/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/275,727

Applicant(s)

DEJONG ET AL.

Examiner

Mylinh T Tran

Art Unit

2179

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Amendment filed 08/03/04.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Applicant's Amendment filed 08/03/04 has been entered and carefully considered. Claims 1-4, 6, 10, 13 and 15 have been amended. However, limitations of amended claims have not been found to be patentable over prior art of record, therefore, claims 1-17 are rejected under the same ground of rejection as set forth in the Office Action mailed (03/29/04).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-17, are rejected under 35 U.S.C. 103(a) as being unpatentable over Axberg et al. [US. 6,009,466] in view of Ofer et al. [US. 5,890,204].

As to claims 1 and 3, Axberg et al. discloses a computer implemented method and corresponding apparatus for a storage area network management and configuration system (column 11, lines 25-45) comprising the steps/means for an enterprise network including a plurality of computer systems, the plurality of computer systems including server computer systems and client computer systems wherein the server computer systems include a server component, and the client computer systems include a client

component (column 4, lines 12-60); the storage enclosure connected to the server computer system from the client computer system without requiring the user to locally interact with the server computer system (column 4, lines 12-41 "Storage network comprises storage devices which are couple to network storage controller via communications links. Each host system connected directly to storage network contains at least one respective storage controller..."). The difference between Axberg et al. and the claim is a storage enclosure being connected to a server computer system having the server component, the storage enclosure having a RAID array of disk and a graphical user interface provided by the client component at a client computer system, the graphical user interface being defined to enable a user to physically build and modify the RAID array of disks of the storage enclosure. Although Axberg et al. already suggests the storage enclosure having a RAID array of disk (column 1, lines 50-55 and column 2, lines 15-25) and a graphical user interface (column 4, lines 22-30 and lines 37-44), Ofer et al. strongly shows the storage enclosure being connected to a server computer system having the server component, the storage enclosure having a RAID array of disk (column 2, lines 25-35 and lines 55-63); and the graphical user interface being defined to enable a user to physically build and modify the RAID array of disks of the storage enclosure (column 1, lines 55-68 and column 4, lines 53-67). It would have been obvious to one of ordinary skill in the art, having the teachings of Axberg et al. and Ofer et al. before

them at the time the invention was made to modify the enterprise network as taught by Axberg et al to include the storage enclosure having a RAID array of disks and the graphical user interface of Ofer et al., with the motivation being to produce cost-effective, highly available, high performance disk system by using the RAID that is a collection of multiple disk drives being organized into a disk array managed by a common array controller as taught by Ofer et al.

As to claim 2, Axberg et al. shows an array modifier tool configured to allow online modification of a capacity and cache parameters of a disk array (column 3, lines 1-22).

As to claim 4, While Axberg et al. shows the enterprise network, Ofer et al. teaches the functional tool to enable the user of the client computer system to build the RAID array of disks through application of a RAID building template (column 1, lines 56-67 and column 3, lines 30-37) comprising a first container defined to enable selection of disks to be used in building the RAID array of disks wherein the disks reside within a storage enclosure (column 5, lines 9-16 "In addition, each storage controller has two disk adapter boards labeled DA15 and DA16, each board able to connect to four disk drives labeled A, B, C, and D. Thus, the storage controller controls up to...eight disk drive units.."); a second container defined to enable selection of the RAID building template that contains a RAID configuration scheme that is optimally selected for a particular storage application (column 5, lines 9-65); and code

for dragging the selected RAID building template, that is in the form of an icon, over the selected disks or dragging the selected disks over the selected RAID building template, the dragging is configured to automatically apply the RAID configuration scheme (column 5, lines 45-54 "the user at the display terminal connected to the host, can "click and drag" delete, or add a connection point being displayed to modify the configuration of the disk drive mass storage system").

As to claim 5, Ofer et al. also discloses a-RAID level (column 5, lines 8-15), a number of drives in the selected hardware and a number of spare drives (column 4, line 55 through column 5, line 5), a stripe size (column 5, lines 32-45) and an array address (column 5, lines 10-50).

As to claim 6, Axberg et al. shows an enterprise monitor link, when selected the monitor link provides a window wherein monitoring settings can be set (column 4, lines 15-20).

As to claim 6, Axberg et al. shows an enterprise monitor tool configured to provide a window wherein monitoring settings can be set (column 4, lines 15-20 and column 10, lines 30-50).

As to claim 7, Axberg et al. also shows discloses a failure indicator (column 6, line 60 through column 7, line 14) and a disk capacity indicator (column 3, lines 1-10).

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As to claim 8, Axberg et al. teaches a temperature indicator for the storage enclosure, a battery health indicator and a power supply health indicator (column 1, lines 25-37).

As to claim 9, Ofer et al. provides an enterprise monitor window for providing a quick view of selected storage enclosure parameters (column 3, lines 1-15).

As to claim 10, Axberg et al. also provides an event notifier configured to provide customizable failure and status notifications associated with storage enclosure within the enterprise network (column 4, lines 55-67).

As to claims 11-12, Axberg et al. demonstrates the setting user notification profiles, the profiles including communication information (column 5, lines 1-17) and the communication information includes e-mail information and pager information (column 5, lines 30-55, network communication).

As to claim 13, Axberg et al. also demonstrates an enterprise icon that when selected allows viewing of the enterprise network that includes the plurality of computer systems and associated storage enclosures that are connected to computer systems having the server component (column 4, lines 25-55).

As to claim 14, Axberg et al. discloses the viewing of the enterprise network can be of physical devices or logical devices, and the physical devices and the logical devices can be displayed in one of a tree view and a quick view (column 8, lines 17-40).

As to claim 15, Axberg et al. also discloses a graphical failure representation provided for selected drives of the storage enclosure, the graphical failure representation being configured to be displayed on a failed drive when the failed drive is in a viewable setting and on the storage enclosure when the failed drive is not in the viewable setting (column 4, lines 55-67).

As to claim 16, Axberg et al. shows the client component providing a user administrator the management and configuration control to the enterprise network (column 5, lines 30-65).

As to claim 17, Axberg et al. also shows the enterprise network can include a plurality of storage enclosure that are connected to selected computer systems that are part of the enterprise network and that have the server component (column 4, lines 12-55).

Response to Arguments

Applicant argues Axberg teaches that only one host computer in the entire network that is connected to the storage network will function as the storage network manager. However, Axberg teaches multiple host computer systems at column 4, lines 56-65. Applicant's attention is directed to the lines "...in which multiple storage networks are connected to multiple host computer systems...".

Applicant has also argued that Axberg does not provide a graphical user interface that is defined to enable a user to physically build and modify the RAID array of disks. However, the Examiner relies on Ofer for this feature.

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Ofer teaches the graphical user interface that is defined to enable a user to physically build and modify the RAID array of disks at column 1, lines 55-68 and column 4, lines 53-67. Also, it is inherent that the server component residing on the server computer system by Axberg's system.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mylinh Tran whose telephone number is (571) 272-4141. The examiner can normally be reached on Monday-Thursday from 8.00AM to 6.30PM

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If attempt to reach the examiner by telephone are unsuccessful, the
examiner 's supervisor, Heather Herndon, can be reached on (571) 272-
4136,

Mylinh Tran

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BA HUYNH
PRIMARY EXAMINER